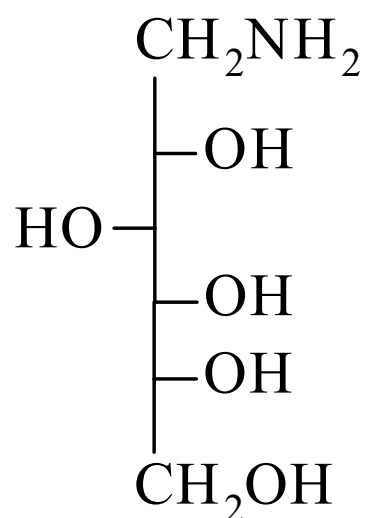




>>Entry Name: 1-Amino-1-deoxyglucitol, 9CI, 8CI
Synonym(s): 1-Amino-1-deoxysorbitol. Sorbitylamine



Related CAS Registry Numbers(s): 8064-12-8

Molecular Formula: $\text{C}_6\text{H}_{15}\text{NO}_5$
Molecular Weight: 181.188
Accurate Mass: 181.095024
Percentage Composition: C 39.77%; H 8.34%; N 7.73%; O 44.15%

>>Variant: D-form
Synonym(s): Glucamine

CAS Registry Number: 488-43-7

Molecular Formula: $\text{C}_6\text{H}_{15}\text{NO}_5$
Molecular Weight: 181.188
Accurate Mass: 181.095024
Percentage Composition: C 39.77%; H 8.34%; N 7.73%; O 44.15%
Melting Point: Mp 126-128°
Optical Rotation: $[\alpha]_{\text{D}}^{25} -8$ (c, 5.9 in H_2O)
Other Data: Slightly sweet taste
Aldrich: 34038-3
Fluka: 49100

>>Derivative: Oxalate salt

Melting Point: Mp 177-179 dec.°
Optical Rotation: $[\alpha]_{\text{D}}^{25} -14$ (c, 1.2 in H_2O)

>>Derivative: N-Me
Synonym(s): 1-Deoxy-1-(methyamino)glucitol, 9CI, 8CI. **Meglumine**, BAN, INN, JAN, USAN. Methylglucamine

CAS Registry Number: 6284-40-8

Molecular Formula: $\text{C}_7\text{H}_{17}\text{NO}_5$
Molecular Weight: 195.215
Accurate Mass: 195.110674
Percentage Composition: C 43.07%; H 8.78%; N 7.18%; O 40.98%
Use/Importance: Forms salts with iodinated carboxylic acids which are used as contrast media
Melting Point: Mp 128-129°
Optical Rotation: $[\alpha]_{\text{D}}^{18} -18.5$ (H_2O)
Solubility: V. sol. H_2O
Other Data: Forms salts with acids and complexes with metals
Aldrich: M4700-0
Fluka: 66930
Sigma: M2004